



**Recra LabNet Philadelphia
Analytical Report**

Client: TNU HANFORD B00-056

RFW #: 0009L620

SDG/SAF#: H1036/B00-056

W.O. #: 10985-001-001-9999-00

Date Received: 09-15-00

GC SCAN

RECEIVED
JAN 09 2000

One (1) water sample was collected on 09-11-00.

EDMC

The sample and it's associated QC samples were prepared on 09-15-00 and analyzed by methodology based on EPA Method 8015B for Methanol on 09-18-00.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. The sample was packaged and stored as specified in the method protocol; the cooler temperature upon receipt has been recorded on the chain-of-custody.
2. The sample preparation and analysis holding times were met.
3. All initial calibrations associated with this data set were within acceptance criteria.
4. All continuing calibration standards analyzed prior to the sample extracts were within acceptance criteria.
5. Recra does not use surrogate spikes for this analysis. The method does not provide specific guidance regarding the use of surrogates and performance criteria. Method performance is monitored through the use of blank spikes and matrix spikes.
6. The blank spike recovery was 182% (outside of advisory control limits of 50%-150%), and may have been double spiked. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
7. The matrix spike recoveries were within the advisory control limits of 50%-150%.
8. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. The laboratory Manager or a designee, as verified by the following signature, has authorized release of the data contained in this hard-copy data package.

by *J. Michael Taylor*
J. Michael Taylor
Vice President
Philadelphia Analytical Laboratory
r:\group\pic-gcsc\larr\gcvoa-scan\2000\09-620al.doc

09-29-00
Date

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 7 pages.

RECRA

Sample Discrepancy Report (SDR)

SDR #: 00LC1849

Initiator: Whissinger Batch: 00072620, 625 Parameter: 06LSC
Date: 9/25/03 Samples: BS Matrix: W
Client: Tim Hanford Method: SW846/MCAWW/CLP1 Prep Batch: 00LC175

1. Reason for SDR

- a. COC Discrepancy ☐ Tech Profile Error ☐ Client Request ☐ Sampler Error on C-O-C
☐ Transcription Error ☐ Wrong Test Code ☐ Other _____
- b. General Discrepancy
- ☐ Missing Sample/Extract ☐ Container Broken ☐ Wrong Sample Pulled ☐ Label ID's Illegible
 - ☐ Hold Time Exceeded ☐ Insufficient Sample ☐ Preservation Wrong ☐ Received Past Hold
 - ☐ Improper Bottle Type ☐ Not Amenable to Analysis

Note: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. QC Problem (Include all relevant specific results; attach data if necessary)

BS - high recovery of 182% for Methanol.
- Matrix QC for samples OK; no hits in samples.

2. Known or Probable Causes(s) (To be used for trend analysis)

- ☐ Lack of Organization ☒ Other (Please explain):
 - ☐ Lack of Training
 - ☐ Lack of Discipline
 - ☐ Lack of Resources
 - ☐ Lack of Time
 - ☐ Lack of Management Support
- Possible double-spike

3. Discussion and Proposed Action

Other Description:

- ☐ Re-log
- ☐ Entire Batch
- ☐ Following Samples: _____
- ☐ Re-leach
- ☐ Re-extract
- ☐ Re-digest
- ☐ Revise EDD
- ☐ Change Test Code to _____
- ☐ Place On/Take Off Hold (circle)

narrate

4. Project Manager Instructions...signature/date: _____

- ☐ Concur with Proposed Action
- ☐ Disagree with Proposed Action; See Instruction
- ☒ Include in Case Narrative
- ☐ Client Contacted:
- ☐ Date/Person _____
- ☐ Add
- ☐ Cancel

5. Final Action...signature/date: _____

Other Explanation:

- ☐ Verified re-[log][leach][extract][digest][analysis] (circle)
- ☒ Included in Case Narrative
- ☐ Hard Copy COC Revised
- ☐ Electronic COC Revised
- ☐ EDD Corrections Completed

When Final Action has been recorded, forward original to QA for distribution and filing.

Route/Distribution of SDR

Route Distribution of Completed SDR

- ☐ Initiator
- ☐ Lab Manager: M. Taylor
- ☐ Project Mgr: Stone/Carey/Johnson
- ☐ Section Mgr: Wesson/Daniels
- ☒ QA (file): Schrenkel
- ☐ Data Management: Feldman
- ☐ Sample Prep: Bickel/Kauffman

- ☐ Metals: Doughty
- ☐ Inorganic: Perrone
- ☐ GC/LC: Pastor
- ☐ MS: Layman/Rycklak
- ☐ Log-in: Keppel
- ☐ Admin: Soos
- ☐ Other: _____

GLOSSARY OF OGCSC DATA

DATA QUALIFIERS

- U** = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J** = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I** = Interference.

ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- SP** = Indicates spiked compound.

Recra LabNet - Lionville Laboratory

GC SCAN

Report Date: 09/25/00 09:39

RFW Batch Number: 0009L620

Client: TNU-HANFORD B00-056

Work Order: 10985-001-001-9999-00

Page: 1

	Cust ID:	B104B8	B104B8	B104B8	BLK	BLK BS
Sample	RFW#:	001	001 MS	001 MSD	00LLC175-MB1	00LLC175-MB1
Information	Matrix:	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	1.00
	Units:	mg/L	mg/L	mg/L	mg/L	mg/L

	fl	fl	fl	fl	fl	fl
Methanol	5.0 U	102 %	95 %	5.0 U	182 * %	

10/25/00

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of Advisory limits.

Recra LabNet - Lionville Laboratory
GCSC ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD B00-056

RFW LOT # :0009L620

CLIENT ID	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
B104B8	001	W	00LLC175	09/11/00	09/15/00	09/15/00	09/18/00
B104B8	001 MS	W	00LLC175	09/11/00	09/15/00	09/15/00	09/18/00
B104B8	001 MSD	W	00LLC175	09/11/00	09/15/00	09/15/00	09/18/00
LAB QC:							
BLK	MB1	W	00LLC175	N/A	N/A	09/15/00	09/18/00
BLK	MB1 BS	W	00LLC175	N/A	N/A	09/15/00	09/18/00

ml
09-26-00

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

[illegible]

Special Instructions: Ssf B00-0540

DATE/REVISIONS:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

RECRA LabNet Use Only

Samples were:

1) Shipped ☒ or
Hand Delivered ☐

Alvin S. Beck

2) Ambient or Chilled
3) Received In Good
Condition (Y) or N

4) Labels indicate
Property Preserved

5) Received Within Holding Times

Holding Times of **N**

COC TADO WAS:

1) Present on Outer Package Y or N

2) Unbroken on Outer
Package Y or N

3) Present on Sample (Y) or N

4) Unbroken on
Sample Y or N

**COC Record Present
Upon Sample Rec't**

Cooler Temp. 5.2 °C

Relinquished by	Received by	Date	Time
FedEx	TRappel	7-15-00	0930

Relinquished by	Received by	Date	Time
COMPOSITE	ORIGINAL		

Discrepancies Between
Samples Labels and
COC Record? Y or (N)
NOTES:

322-7-22590

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B00-056-010		Page 1 of 1		
Collector R.B. Kerkow / T. Johansen		Company Contact J. Fancher		Telephone No. 373-9123		Project Coordinator TRENT, SJ		Price Code 75 Data Turnaround		
Project Designation 100-NR-1 TSD Sites R. A. Sampling - Water		Sampling Location 116-N-3 Trench Floor		SAF No. B00-056		Air Quality <input type="checkbox"/> Today M				
Ice Chest No. ERC 99-048(UDF)		Field Logbook No. EL-1524		COA R1325N2600		Method of Shipment Federal Express				
Shipped To FMA/RECRA		Offsite Property No. PSR 107125		Bill of Lading/Air Bill No. WA						
THS 9-11-00 POSSIBLE SAMPLE HAZARDS/REMARKS Potentially Radioactive Special Handling and/or Storage		Preservation		Cool 4C						
		Type of Container		Ca°						
		No. of Container(s)		1						
		Volume		40mL						
SAMPLE ANALYSIS				Alcohols, Glycols, & Ketones - 8015M (Methanol)						
Sample No.		Matrix *		Sample Date		Sample Time				
B104B8		WATER		9-11-00		1021		X		
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix * S-Soil SS-Sediment SO-Solid S-Sludge W-Water O-Oil A-Air DS-Drum Solids DL-Drum Liquids T-Threat W-Wipe L-Liquid V-Vegetation X-Other		
Relinquished By		Date/Time		Received By		Date/Time				
THS 9-11-00		0800		R. Thoren		9-14-00				
Relinquished By		Date/Time		Received By		Date/Time				
R. Thoren		9-14-00		F. E. E. P.						
Relinquished By		Date/Time		Received By		Date/Time		Samples stored in Ref. # 34 at the 3728 Shipping Facility on 9/14/00 Collector not available to relinquish samples on 9/14/00 for shipment.		
FedEx 9-15-00		0930		T. Beppel		9-15-00 0930				
Relinquished By		Date/Time		Received By		Date/Time				
Relinquished By		Date/Time		Received By		Date/Time				
LABORATORY SECTION		Received By		Title				Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By				Date/Time		